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to emission measurements that would result from emission tests performed during in-use operation using the same engine configuration installed in a vessel.

- (b) Test procedures otherwise allowed by the provisions of this subpart shall not be used where such procedures are not consistent with good engineering practice and the regulatory goal specified in paragraph (a) of this section.
- (c) Alternate test procedures may be used if shown to yield equivalent results, and if approved in advance by the Administrator

§94.103 Test procedures for Category 1 marine engines.

- (a) Gaseous and particulate emissions shall be measured using the test procedures specified in 40 CFR part 89, except as otherwise specified in this sub-
- (b) The Administrator may specify changes to the provisions of paragraph (a) of this section that are necessary to comply with the general provisions of § 94.102.

§94.104 Test procedures for Category 2 marine engines.

(a) Gaseous and particulate emissions shall be measured using the test procedures specified in 40 CFR part 92, except as otherwise specified in this subpart.

- (b)(1) The requirements of 40 CFR part 92 related to charge air temperatures, engine speed and load, and engine air inlet restriction pressures do not apply for marine engines.
- (2) For marine engine testing, charge air temperatures, engine speed and load, and engine air inlet restriction pressures shall be representative of typical in-use marine engine conditions.
- (c) The Administrator may specify changes to the provisions of paragraph (a) of this section that are necessary to comply with the general provisions of § 94.102.

§ 94.105 Duty cycles.

- (a) Overview. For the purpose of determining compliance with the emission standards of §94.8, except for those in §94.8(e), engines shall be tested using the appropriate duty cycles described in this section.
- (b) General cycle. Propulsion engines that are used with (or intended to be used with) fixed-pitch propellers, and any other engines for the other duty cycles of this section don't apply, shall be tested using the duty cycle described in the following Table B-1:

TABLE B-1.—GENERAL MARINE DUTY CYCLE

Mode No.	Engine speed ¹ (percent of maximum test speed)	Percent of maximum test power ²	Minimum time in mode (minutes)	Weighting factors
1	100 91 80	100 75 50	5.0 5.0 5.0	0.20 0.50 0.15
4	63	25	5.0	0.15

(c) Variable-pitch and electrically coupled propellers. (1) Constant-speed propulsion engines that are used with (or intended to be used with) variablepitch propellers or with electrically coupled propellers shall be tested using the duty cycle described in the following Table B-2:

TABLE B-2.—DUTY CYCLE FOR CONSTANT-SPEED PROPULSION ENGINES

Mode No.	Engine speed ¹ (percent of maximum test speed)	Percent of maximum test power 2	Minimum time in mode (minutes)	Weighting factors
1	100	100	5.0	0.20

¹ Engine speed: #2 percent of point. ² Power: #2 percent of engine maximum value.